

SCHUYLKILL RIVER BASIN

01472157 FRENCH CREEK NEAR PHOENIXVILLE, PA

LOCATION.--Lat 40°09'05", long 75°36'06", Chester County, PA, Hydrologic Unit 02040203, on right bank 70 ft downstream from two-span county bridge on French Creek Road, 4.5 mi northwest of Phoenixville, and 7.3 mi upstream from mouth.

DRAINAGE AREA.--59.1 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1968 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: November 1998 to August 1999.

INSTRUMENTATION.--Water-temperature data logger (in situ system; measurements recorded every 15 or 30 minutes) located at gage.

REMARKS.--These samples were collected as part of the Delaware River Basin National Water Quality Assessment Program (NAWQA).

Fish tissue, bed sediment, and fish community data for this site are presented on page 463. Interruptions in the daily record were due to instrument vandalism or malfunction. For the definitions of the type of quality-control data listed under SAMPLE TYPE, refer to "Quality-control data" in the "Explanation of Records" section.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST.	BARO-METRIC PRES-SURE (MM OF HG)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	PH WATER WHOLE	SPE-CIFIC CON-DUCT-ANCE (US/CM)	TEMPER-ATURE AIR (DEG C)	TEMPER-ATURE WATER (DEG C)	
			(00061)	(00025)	(00301)	(00300)	(00400)	(00095)	(00020)	(00010)
NOV 1998										
04...	1145	FIELD BLANK	--	--	--	--	--	--	--	--
04...	1200	ENVIRONMENTAL	22	760	104	12.0	7.9	172	9.5	7.5
DEC 09...	1550	ENVIRONMENTAL	28	765	102	11.9	8.4	167	12.0	8.5
JAN 1999										
12...	1500	ENVIRONMENTAL	94	757	96	14.0	7.7	187	1.0	.0
FEB 03...	1430	ENVIRONMENTAL	114	760	100	12.6	7.5	139	13.0	5.5
MAR 03...	1410	ENVIRONMENTAL	56	746	107	12.8	7.8	151	17.0	7.0
03...	1411	SPLIT REPLICATE	--	--	--	--	--	--	--	--
APR 07...	1410	ENVIRONMENTAL	55	757	112	11.0	8.0	151	22.0	16.0
MAY 05...	1330	ENVIRONMENTAL	45	750	114	10.4	8.0	151	24.5	19.0
JUN 02...	1430	ENVIRONMENTAL	27	755	133	11.0	8.2	162	29.5	24.5
JUL 01...	1340	ENVIRONMENTAL	15	758	--	--	8.2	161	26.0	23.0
AUG 04...	1430	ENVIRONMENTAL	7.2	754	--	--	8.6	163	32.5	25.0
31...	0740	ENVIRONMENTAL	10	764	--	--	7.8	194	19.5	17.0
SEP 16...	1820	ENVIRONMENTAL	9370	738	--	8.9	7.3	64	16.5	--

  

DATE	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	SODIUM, DIS-SOLVED (MG/L AS NA)	ANC TIT 4.5 LAB (MG/L AS CACO3)	ALKA-LINITY WAT DIS TOT IT FIELD (MG/L AS CACO3)	BICAR-BONATE WATER DIS IT FIELD (MG/L AS HCO3)	CAR-BONATE WATER DIS IT FIELD (MG/L AS CO3)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)
	(00950)	(00915)	(00925)	(00935)	(00930)	(90410)	(39086)	(00453)	(00452)	(00940)	
NOV 1998											
04...	--	--	--	--	--	--	--	--	--	--	--
04...	66	17	5.4	1.7	7.5	50	50	61	--	12	<.1
DEC 09...	56	15	4.6	1.6	7.2	46	44	54	--	11	<.1
JAN 1999											
12...	54	14	4.8	2.8	12	31	30	36	--	21	<.1
FEB 03...	43	11	4.0	1.9	7.7	24	23	28	--	14	<.1
MAR 03...	48	12	4.2	1.5	7.6	--	28	34	--	14	<.1
03...	50	13	4.4	1.6	7.9	--	--	--	--	14	<.1
APR 07...	51	13	4.4	1.3	7.3	--	33	41	--	12	<.1
MAY 05...	50	13	4.3	1.2	6.6	--	36	44	--	11	<.1
JUN 02...	57	15	4.6	1.4	7.4	--	40	49	--	12	<.1
JUL 01...	59	16	4.7	1.4	6.9	--	45	54	--	11	.1

AUG											
04...	61	17	4.8	1.5	7.2	--	49	55	3	11	<.1
31...	69	18	5.6	2.0	8.3	--	47	57	--	13	<.1
SEP											
16...	16	4.0	1.6	2.9	1.7	--	13	15	--	2.6	.1



16... 1820 <.37 <.032 <.066 <.044 <5 <.27 <.12 <.19 <.056 <.044

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WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	BENZENE 1,3-DI- CHLORO- WATER UNFLTRD REC (UG/L)	BENZENE 1,4-DI- CHLORO- WATER UNFLTRD REC (UG/L)	ISO- PROPYL- BENZENE WATER WHOLE REC (UG/L)	BENZENE N-BUTYL WATER UNFLTRD REC (UG/L)	BENZENE N-PROPY WATER UNFLTRD REC (UG/L)	BENZENE O-DI- CHLORO- WATER UNFLTRD REC (UG/L)	BENZENE TOTAL (UG/L)	BROMO- FORM TOTAL (UG/L)	CHLORO- BENZENE TOTAL (UG/L)	BROMO- METHANE TOTAL (UG/L)	CHLORO- DI- WATER TOTAL (UG/L)
	(32106)	(34566)	(34571)	(77223)	(77342)	(77224)	(34536)	(34030)	(32104)	(34301)	(32105)
MAY 1999											
05...	<.054	<.05	<.032	<.19	<.042	<.048	<.1	<.1	<.028	<.18	<.052
SEP											
16...	<.054	<.05	<.032	<.19	<.042	<.048	<.1	<.1	<.028	<.18	<.052

DATE	CIS-1,2 -DI- CHLORO- ETHENE WATER TOTAL (UG/L)	BROMO- DI- CHLORO- METHANE TOTAL (UG/L)	ETHER WATER UNFLTRD RECOVER (UG/L)	ETHER TERT- PENTYL METHYL UNFLTRD RECOVER (UG/L)	BENZENE ETHYL- WATER UNFLTRD RECOVER (UG/L)	FURAN, TETRA- HYDRO- WATER UNFLTRD RECOVER (UG/L)	ISO- DURENE WATER UNFLTRD RECOVER (UG/L)	METHYL TERT- BUTYL ETHER WAT UNF REC (UG/L)	METHYL- CHLO- RIDE TOTAL (UG/L)	METHYL ENE RIDE TOTAL (UG/L)	METHYL- ETHYL- KETONE WHOLE TOTAL (UG/L)
	(81595)	(77093)	(32101)	(81576)	(50005)	(34371)	(81607)	(50000)	(78032)	(34418)	(34423)
MAY 1999											
05...	<.038	<.048	<.17	<.11	<.03	<9	<.2	E.0704	<.25	<.38	<1.6
SEP											
16...	<.038	<.048	<.17	<.11	<.03	<9	<.2	<.17	<.25	<.38	<1.6

DATE	METHYL ISO- BUTYL KETONE WAT.WH. TOTAL (UG/L)	META/ PARA- XYLENE WATER UNFLTRD REC (UG/L)	O- CHLORO- TOLUENE WATER WHOLE TOTAL (UG/L)	O- XYLENE WATER WHOLE TOTAL (UG/L)	P-ISO- PROPYL- TOLUENE WATER WHOLE REC (UG/L)	PREH- NITENE WATER UNFLTRD RECOVER (UG/L)	STYRENE TOTAL (UG/L)	TETRA- ETHYL- ENE TOTAL (UG/L)	TOLUENE O-ETHYL WATER UNFLTRD RECOVER (UG/L)	TOLUENE TOTAL (UG/L)	TRI- CHLORO- ETHYL- ENE TOTAL (UG/L)
	(39180)	(78133)	(85795)	(77275)	(77135)	(77356)	(49999)	(77128)	(34475)	(77220)	(34010)
MAY 1999											
05...	<.37	<.06	<.042	<.06	<.11	<.23	<.042	<.1	<.1	E.0554	E.0188
SEP											
16...	<.37	<.06	<.042	<.06	<.11	<.23	<.042	<.1	<.1	<.05	<.038

WATER-COLUMN PESTICIDE ANALYSES. Selected samples were analyzed for pesticides on schedule 2001 (listed with minimum reporting levels in "Explanation of Records" section). Only pesticides identified by the analyses in one or more samples are listed in the water-quality tables.

DATE	TIME	ACETO- CHLOR, WATER FLTRD REC (UG/L)	ALA- CHLOR, WATER, DISS, REC (UG/L)	ATRA- ZINE, WATER, DISS, REC (UG/L)	BEN- FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L)	CAR- BARYL WATER FLTRD 0.7 U GF, REC (UG/L)	CARBO- FURAN WATER FLTRD 0.7 U GF, REC (UG/L)	CHLOR- PYRIFOS DIS- SOLVED (UG/L)	CYANA- ZINE, WATER, DISS, REC (UG/L)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L)
				(49260)	(46342)	(39632)	(82673)	(82680)	(82674)	(38933)
DEC 1998										
09...	1550	<.002	<.002	.0066	<.002	<.003	<.003	<.004	<.004	<.002
JAN 1999										
12...	1500	<.002	<.002	.0116	<.002	E.0070	<.003	<.004	<.004	<.002
FEB										
03...	1430	<.002	<.002	.0104	<.002	<.003	<.003	<.004	<.004	<.002
MAR										
03...	1410	<.002	<.002	.0083	<.002	<.003	<.003	<.004	<.004	<.002
APR										
07...	1410	<.002	<.002	.0083	<.002	<.003	<.003	<.004	<.004	<.002
MAY										
05...	1330	<.002	<.002	.0095	<.002	<.003	<.003	<.004	<.004	<.002
JUN										
02...	1430	<.002	<.002	.0200	<.002	<.003	<.030	<.004	<.004	<.002
JUL										
01...	1340	<.002	<.002	.0130	<.002	<.003	<.003	<.004	<.004	<.002
AUG										
04...	1430	<.002	<.002	.0079	<.002	<.003	<.003	<.004	<.004	<.002
31...	0740	<.002	<.002	.0069	<.002	<.003	<.003	<.004	<.004	<.002
SEP										
16...	1820	<.002	.0135	.0221	<.002	<.003	<.003	<.004	.0284	.0040

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WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	DEETHYL			EPTC		LIN-		METHYL		METRI-
	ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	DI- AZINON, DIS- SOLVED (UG/L) (39572)	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	LINDANE DIS- SOLVED (UG/L) (39341)	URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA- THON, DIS- SOLVED (UG/L) (39532)	AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	BUZIN SENCOR WATER DISSOLV (UG/L) (82630)
DEC 1998										
09...	E.0265	<.002	<.001	<.002	<.004	<.002	<.005	<.001	<.002	<.004
JAN 1999										
12...	E.0235	<.002	<.001	<.002	<.004	<.002	<.005	<.001	.0155	<.004
FEB										
03...	E.0180	<.002	<.001	<.002	<.004	<.002	<.005	<.001	.0113	<.004
MAR										
03...	E.0124	<.002	<.001	<.002	<.004	<.002	<.005	<.001	.0067	<.004
APR										
07...	E.0219	<.002	<.001	<.002	<.004	<.002	<.005	<.001	.0060	<.004
MAY										
05...	E.0292	<.002	<.001	<.002	<.004	<.002	<.005	<.001	.0075	<.004
JUN										
02...	E.0213	<.002	<.001	<.002	<.004	<.002	<.005	<.001	.0082	<.004
JUL										
01...	E.0460	<.002	<.001	<.002	<.004	<.002	<.005	<.001	.0070	<.004
AUG										
04...	E.0337	<.002	<.001	<.002	<.004	<.002	<.005	<.001	.0046	<.004
31...	E.0231	<.002	<.001	<.002	<.004	<.002	<.005	<.001	E.0028	<.004
SEP										
16...	E.0095	<.002	<.001	<.002	<.004	<.002	<.005	<.001	.0316	<.004
DATE	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	PRON- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PRO- PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
DEC 1998										
09...	<.003	<.006	<.004	<.018	<.003	<.004	.0082	<.010	<.007	<.002
JAN 1999										
12...	<.003	<.006	<.004	<.018	<.003	<.004	.0602	<.010	<.007	<.002
FEB										
03...	<.003	<.006	<.004	<.018	<.003	<.004	.0121	<.010	<.007	<.002
MAR										
03...	<.003	<.006	<.004	<.018	<.003	<.004	.0124	<.010	<.007	<.002
APR										
07...	<.003	<.006	<.004	<.018	<.003	<.004	.0119	<.010	<.007	<.002
MAY										
05...	<.003	<.006	<.004	<.018	<.003	<.004	.0131	<.010	<.007	<.002
JUN										
02...	<.003	<.006	<.004	<.018	<.003	<.004	.164	<.010	<.007	<.002
JUL										
01...	<.003	<.006	<.004	<.018	<.003	<.004	.135	<.010	<.007	<.002
AUG										
04...	<.003	<.006	<.004	<.018	<.003	<.004	.176	<.010	<.007	<.002
31...	<.003	<.006	<.004	<.018	<.003	<.004	.0392	<.010	<.007	<.002
SEP										
16...	<.003	<.006	<.004	<.018	<.003	<.004	.0117	<.010	<.007	<.002



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01472157 FRENCH CREEK NEAR PHOENIXVILLE, PA--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	23.0	21.0	22.0	28.5	25.0	26.5	---	---	---
2	---	---	---	25.0	22.0	23.5	28.5	22.5	25.0	---	---	---
3	23.5	20.0	21.5	26.5	21.5	24.0	27.0	21.0	23.5	---	---	---
4	23.0	18.5	20.5	28.5	23.5	26.0	---	---	---	---	---	---
5	22.5	17.0	19.5	30.5	24.5	27.0	---	---	---	---	---	---
6	23.0	17.0	19.5	30.5	25.0	27.5	---	---	---	---	---	---
7	25.0	19.0	22.0	29.5	24.5	26.5	---	---	---	---	---	---
8	26.5	21.0	23.5	26.5	21.5	24.0	---	---	---	---	---	---
9	26.5	21.0	23.0	26.5	20.0	23.5	---	---	---	---	---	---
10	22.0	19.0	21.0	24.5	21.5	23.5	---	---	---	---	---	---
11	23.0	17.0	20.0	25.0	19.0	21.5	---	---	---	---	---	---
12	20.0	16.5	18.5	20.5	18.5	19.5	---	---	---	---	---	---
13	20.5	19.0	19.5	23.5	18.5	20.5	---	---	---	---	---	---
14	22.0	19.0	20.5	21.5	19.0	20.5	---	---	---	---	---	---
15	24.5	20.0	21.5	25.0	17.5	21.0	---	---	---	---	---	---
16	22.5	18.5	20.0	26.5	20.5	23.5	---	---	---	---	---	---
17	20.0	17.5	18.5	28.5	22.0	25.0	---	---	---	---	---	---
18	20.5	16.5	18.5	28.5	23.0	25.5	---	---	---	---	---	---
19	21.5	15.5	18.5	28.0	23.5	25.5	---	---	---	---	---	---
20	19.0	17.0	18.0	25.0	23.0	24.5	---	---	---	---	---	---
21	18.0	17.0	17.5	25.0	21.5	23.5	---	---	---	---	---	---
22	21.5	15.5	18.5	25.5	22.5	24.0	---	---	---	---	---	---
23	23.5	17.5	20.0	28.5	23.0	25.0	---	---	---	---	---	---
24	24.0	18.5	21.0	27.0	23.5	25.0	---	---	---	---	---	---
25	23.0	18.5	21.0	28.5	23.0	25.5	---	---	---	---	---	---
26	25.0	20.0	22.5	28.0	22.5	25.0	---	---	---	---	---	---
27	25.0	21.5	23.5	28.5	22.0	25.0	---	---	---	---	---	---
28	25.5	23.0	24.0	28.0	22.5	25.0	---	---	---	---	---	---
29	26.5	23.0	24.5	26.5	22.0	24.0	---	---	---	---	---	---
30	24.0	21.5	22.5	27.0	22.0	24.5	---	---	---	---	---	---
31	---	---	---	28.5	23.0	26.0	---	---	---	---	---	---
MONTH	26.5	15.5	20.5	30.5	17.5	24.0	---	---	---	---	---	---